

MG166CX, MG124CX, MG82CX

Mixing Consoles



MG166CX



MG124CX



MG82CX

Yamaha's one-knob compressor and built-in SPX effects give these mixers refined creative control.

- 8, 12, or 16 inputs in remarkably lightweight, portable designs.
- Yamaha's innovative one-knob compressor lets you easily dial in the amount of compression you need.
- Built-in digital SPX multi-effect processor.
- All models feature high-quality Neutrik™ balanced XLR connectors on mono microphone/line channels and XLR-equipped stereo channels.
- Top-mounted input and output connectors for easy setup and re-patching.
- High-performance microphone preamplifiers with switchable phantom power.
- 3-band channel EQ and high-pass filters (sweepable midrange on the MG166CX).
- Smooth 60-millimeter faders & illuminated channel ON switches.
- The MG82CX has a single stereo bus (i.e. two mono buses), while the other models feature one or two additional stereo group buses and outputs for convenient channel grouping.
- AUX sends with master send controls for convenient processing and monitoring.
- Return level controls for the AUX and STEREO buses.
- Bright meters for visual level monitoring.
- Optional microphone stand mount available for the MG82CX.
- MG166CX rack mountable.

OPTION

BMS10A
Mic Stand Adaptor
for MG82C



FC5
Foot Switch



MG166CX, MG124CX, MG82CX

GENERAL SPECIFICATIONS

| | MG166CX | MG124CX | MG82CX |
|-------------------------------------|---|--|--|
| Mic/Line inputs | 10 | 6 | 4 |
| Line inputs | 8 mono + 4 stereo | 4 mono + 4 stereo | 2 mono + 3 stereo |
| Mixer input channels | 16 | 12 | 8 |
| Group buses | 4 | 2 | - |
| AUX buses | 3 (Incl. 1x Effect send) | 2 (Incl. 1x Effect send) | 1 (Effect send) |
| Main buses | Stereo | Stereo | Stereo |
| Total harmonic distortion*1 (THD+N) | Less than 0.1%, 20Hz-20kHz | | |
| Frequency response | 0, +1, -3dB, 20Hz-20kHz | | |
| Hum & noise level*2 | Equivalent input noise (EIN): -128dBu Residual output noise: -98dBu | | Equivalent input noise (EIN): -128dBu Residual output noise: -100dBu |
| Crosstalk (@1kHz) | -70dB | | |
| Power supply adaptor | PA-30 AC adaptor (AC35VCT, 1.4A) 100V, 120V, 220V, 230V or 240V; 50/60Hz | PA-20 AC adaptor (AC35VCT, 0.94A) 100V, 120V, 220V, 230V or 240V; 50/60Hz | PA-10 AC adaptor (AC38VCT, 0.62A) 100V, 120V, 220V, 230V or 240V; 50/60Hz |
| Power consumption | 35W | 30W | 21W |
| Dimensions (W x H x D) | 478 x 105 x 496mm (18.8" x 4.1" x 19.5") | 346.2 x 86.1 x 436.6mm (13.6" x 3.4" x 17.2") | 256.6 x 62.2 x 302.5mm (10.1" x 2.5" x 11.9") |
| Net weight | 5.5kg (12.1lbs) | 3.2kg (7.0lbs) | 1.6kg (3.5lbs) |
| Accessories | Owners manual, AC adaptor | | |

*1 Total harmonic distortion is measured with a 18dB/Oct filter @80kHz.

*2 Hum & noise level is measured with a 6dB/oct filter @12.7kHz; equivalent to 20kHz filter with infinite dB/Oct attenuation

INPUT SPECIFICATIONS

| Terminal | Gain | Actual Load Impedance | For Use With Nominal | Input Level | | | Connector |
|-----------------------------|----------------|-----------------------|----------------------|------------------|------------------|------------------|----------------------------------|
| | | | | Sensitivity | Nominal | Max. before Clip | |
| MG166CX | | | | | | | |
| CH IN MIC (1-8) | -60dB -16dB | 3kΩ | 50-600Ω Mics | -80dBu -36dBu | -60dBu -16dBu | -40dBu +4dBu | XLR-3-31 type * |
| CH IN LINE (1-8) | -34dB +10dB | 10kΩ | 600Ω Lines | -54dBu -10dBu | -34dBu +10dBu | -14dBu +30dBu | TRS Phone jack * |
| ST CH MIC IN (9/10, 11/12) | -60dB -16dB | 3kΩ | 50-600Ω Mics | -80dBu -36dBu | -60dBu -16dBu | -40dBu -6Bu | XLR-3-31 type * |
| ST CH LINE IN (9/10, 11/12) | -34dB +10dB | 10kΩ | 600Ω Lines | -54dBu -10dBu | -34dBu +10dBu | -14dBu +30dBu | Phone jack ** |
| ST CH IN (13/14, 15/16) | - | 10kΩ | 600Ω Lines | -30dBu | -10dBu | +10dBu | Phone jack ** RCA pin jack ** |
| CH INSERT IN (1-8) | - | 10Ωk | 600Ω Lines | -20dBu | 0dBu | +20dBu | TRS Phone jack * |
| RETURN [L,R] | - | 10kΩ | 600Ω Lines | -12dBu | +4dBu | +24dBu | Phone jack ** |
| 2TR IN [L,R] | - | 10kΩ | 600Ω Lines | -26dBV | -10dBV | +10dBV | RCA pin jack ** |
| MG124CX | | | | | | | |
| CH IN MIC (1-4) | -60dB -16dB | 3kΩ | 50-600Ω Mics | -80dBu -36dBu | -60dBu -16dBu | -40dBu +4dBu | XLR-3-31 type * |
| CH IN LINE (1-4) | -34dB +10dB | 10kΩ | 600Ω Lines | -54dBu -10dBu | -34dBu +10dBu | -14dBu +30dBu | TRS Phone jack * |
| ST CH MIC IN (5/6,7/8) | -60dB -16dB | 3kΩ | 50-600Ω Mics | -80dBu -36dBu | -60dBu -16dBu | -40dBu -6Bu | XLR-3-31 type * |
| ST CH LINE IN (5/6,7/8) | -34dB +10dB | 10kΩ | 600Ω Lines | -54dBu -10dBu | -34dBu +10dBu | -14dBu +30dBu | Phone jack ** |
| ST CH IN (9/10,11/12) | - | 10kΩ | 600Ω Lines | -30dBu | -10dBu | +10dBu | Phone jack ** RCA pin jack ** |
| CH INSERT IN (1-4) | - | 10kΩ | 600Ω Lines | -20dBu | 0dBu | +20dBu | TRS Phone jack * |
| RETURN [L,R] | - | 10kΩ | 600Ω Lines | -12dBu | +4dBu | +24dBu | Phone jack ** |
| 2TR IN [L,R] | - | 10kΩ | 600Ω Lines | -26dBV | -10dBV | +10dBV | RCA pin jack ** |
| MG82CX | | | | | | | |
| CH IN MIC (1, 2) | -60dB -16dB | 3kΩ | 50-600Ω Mics | -72dBu -28dBu | -60dBu -16dBu | -40dBu +4dBu | XLR-3-31 type * |
| CH IN LINE (1, 2) | -34dB +10dB | 10kΩ | 600Ω Lines | -46dBu - 2dBu | -34dBu +10dBu | -14dBu +30dBu | TRS Phone jack * |
| ST CH MIC IN (3/4, 5/6) | -60dB -16dB | 3kΩ | 50-600Ω Mics | -72dBu -28dBu | -60dBu -16dBu | -40dBu -6Bu | XLR-3-31 type * |
| ST CH LINE IN (3/4, 5/6) | -34dB +10dB | 10kΩ | 600Ω Lines | -46dBu - 2dBu | -34dBu +10dBu | -14dBu +30dBu | Phone jack ** |
| ST CH IN (7/8) | - | 10kΩ | 600Ω Lines | -22dBu | -10dBu | +10dBu | Phone jack ** RCA pin jack ** |
| CH INSERT IN (1, 2) | - | 10kΩ | 600Ω Lines | -12dBu | 0dBu | +20dBu | TRS Phone jack * |
| RETURN [L,R] | - | 10kΩ | 600Ω Lines | - 8dBu | +4dBu | +24dBu | Phone jack ** |
| 2TR IN [L,R] | - | 10kΩ | 600Ω Lines | -22dBV | -10dBV | +10dBV | RCA pin jack ** |

Sensitivity is the lowest level that will produce the nominal output level when the unit is set to maximum level.

OUTPUT SPECIFICATIONS

| Terminal | Actual Source Impedance | For Use With Nominal | Output Level | | Connector |
|---------------------|-------------------------|----------------------|--------------|------------------|-----------------------------------|
| | | | Nominal | Max. before Clip | |
| MG166CX | | | | | |
| STEREO OUT [L,R] | 75Ω | 600Ω Lines | +4dBu | +24dBu | XLR 3-32 type* TRS Phone jack* |
| GROUP OUT [1-4] | 150Ω | 10kΩ Lines | +4dBu | +20dBu | TRS Phone jack*** |
| AUX SEND (1, 2) | 150Ω | 10kΩ Lines | +4dBu | +20dBu | TRS Phone jack*** |
| EFFECT SEND | 150Ω | 10kΩ Lines | +4dBu | +20dBu | TRS Phone jack*** |
| CH INSERT OUT (1-8) | 75Ω | 10kΩ Lines | 0dBu | +20dBu | TRS Phone jack** |
| REC OUT [L, R] | 600Ω | 10kΩ Lines | -10dBV | +10dBV | RCA pin jack** |
| MONITOR OUT [L, R] | 150Ω | 10kΩ Lines | +4dBu | +20dBu | TRS Phone jack* |
| PHONES OUT | 100Ω | 40kΩ Lines | 3mW | 75mW | Stereo phone jack** |
| MG124CX | | | | | |
| STEREO OUT [L, R] | 75Ω | 600Ω Lines | +4dBu | +24dBu | XLR 3-32 type* TRS Phone jack* |
| GROUP OUT [1, 2] | 150Ω | 10kΩ Lines | +4dBu | +20dBu | TRS Phone jack*** |
| AUX SEND | 150Ω | 10kΩ Lines | +4dBu | +20dBu | TRS Phone jack*** |
| EFFECT SEND | 150Ω | 10kΩ Lines | +4dBu | +20dBu | TRS Phone jack*** |
| CH INSERT OUT (1-4) | 75Ω | 10kΩ Lines | 0dBu | +20dBu | Phone jack** |
| REC OUT [L, R] | 600Ω | 10kΩ Lines | -10dBV | +10dBV | RCA pin jack** |
| MONITOR OUT [L, R] | 150Ω | 10kΩ Lines | +4dBu | +20dBu | TRS Phone jack*** |
| PHONES OUT | 100Ω | 40kΩ Lines | 3mW | 75mW | Stereo phone jack** |
| MG82CX | | | | | |
| STEREO OUT [L,R] | 150Ω | 10kΩ Lines | +4dBu | +20dBu | TRS Phone jack*** |
| EFFECT SEND | 150Ω | 10kΩ Lines | +4dBu | +20dBu | TRS Phone jack*** |
| CH INSERT OUT (1-2) | 75Ω | 10kΩ Lines | 0dBu | +20dBu | TRS Phone jack** |
| REC OUT [L, R] | 600Ω | 10kΩ Lines | -10dBV | +10dBV | RCA pin jack** |
| MONITOR OUT [L, R] | 150Ω | 10kΩ Lines | +4dBu | +20dBu | Phone jack*** |
| PHONES OUT | 100Ω | 40kΩ Lines | 3mW | 75mW | Stereo phone jack** |

*** : Impedance balanced

DIMENSIONS

